500

## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: Source: PCT

Date Processed by STIC: 1–17–06

## ENTERED



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RAW SEQUENCE LISTING DATE: 01/17/2006
PATENT APPLICATION: US/10/519,342 TIME: 12:34:55

Input Set : A:\UUTH-P01-010.txt

Output Set: N:\CRF4\01172006\J519342.raw

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3 <110> APPLICANT: Li, Dean
        Park, Kye Won
 6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MANIPULATING THE GUIDED
        NAVIGATION OF ENDOTHELIAL TUBES DURING ANGIOGENESIS
 9 <130> FILE REFERENCE: UUTH-P01-010
11 <140> CURRENT APPLICATION NUMBER: US 10/519,342
12 <141> CURRENT FILING DATE: 2004-12-21
14 <150> PRIOR APPLICATION NUMBER: 60/392,142
15 <151> PRIOR FILING DATE: 2002-06-27
17 <160> NUMBER OF SEQ ID NOS: 6
19 <170> SOFTWARE: PatentIn version 3.1
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1620

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87 9	gcagagcagc	cttccagccc	tccagtccgg	ccaagcccca	agacaccage 1	tgctaggcgc	1860
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91 (	cgcaggggac	tctgttcccc	acgcatgtct	ctgaccccta	cagaggcttg g	gaaggccaaa	1980
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		a cctcccacca					240
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188	tgcccaatct	tacacggcct	tgttcaggac	ccagactgcc	ccgggaggcc	agggagctcc	900
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290	<213	3 > OF	RGANI	SM:	Mous	se											
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299				20					25					30			
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303			35					40					45				
306 307	Ala	Lys 50	Met	Arg	Cys	Arg	Ser 55	Ser	Gly	Gln	Pro	Pro 60	Pro	Thr	Ile	Arg	
	Trp	Leu	Leu	Asn	Glv	Gln	Pro	Leu	Ser	Met	Ala	Thr	Pro	Asp	Leu	His	
311				-	2	70					75					80	
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315	_				85					90		5			95		
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323	- 2 -		115					120		1			125		5	1	
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327		130					135					140					
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339				180				2	185	5				190			
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343			195					200		•		•	205	•		4	
346	Met	Ala	Thr	Asn	Asn	Ala	Gly	Gln	Arq	Glu	Ser	Arq	Ala	Ala	Arq	Val	
347		210					215		,			220			,		
350	Ser	Ile	Gln	Glu	Ser	Gln	Asp	His	Lvs	Glu	His		Glu	Leu	Leu	Ala	
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355		3			245					250		3 3-			255	·	
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359		- 2		260		- 4			265				- 12	270		-	
	Gly	Pro	Ala		Pro	Ala	Glu	Ser		Thr	Ala	Leu	Phe		Thr	Gln	
363			275					280	4 .				285	,		•	
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370 Gly Leu Gln Ser Ala Lys Leu Gly Gly Leu His Trp Gly Gln Asp Tyr 310 315 374 Glu Phe Lys Val Arg Pro Ser Ser Gly Arg Ala Arg Gly Pro Asp Ser 325 330 378 Asn Val Leu Leu Leu Arg Leu Pro Glu Gln Val Pro Ser Ala Pro Pro 345 382 Gln Gly Val Thr Leu Arg Ser Gly Asn Gly Ser Val Phe Val Ser Trp 386 Ala Pro Pro Pro Ala Glu Ser His Asn Gly Val Ile Arg Gly Tyr Gln 370 375 390 Val Trp Ser Leu Gly Asn Ala Ser Leu Pro Ala Ala Asn Trp Thr Val 390 395 394 Val Gly Glu Gln Thr Gln Leu Glu Ile Ala Thr Arg Leu Pro Gly Ser 405 410 398 Tyr Cys Val Gln Val Ala Ala Val Thr Gly Ala Gly Ala Gly Glu Leu 420 425 402 Ser Thr Pro Val Cys Leu Leu Glu Gln Ala Met Glu Gln Ser Ala 435 440 406 Arg Asp Pro Arg Lys His Val Pro Trp Thr Leu Glu Gln Leu Arg Ala 450 455 410 Thr Leu Arg Arg Pro Glu Val Ile Ala Ser Ser Ala Val Leu Leu Trp 470 475 414 Leu Leu Leu Gly Ile Thr Val Cys Ile Tyr Arg Arg Lys Ala 485 490 418 Gly Val His Leu Gly Pro Gly Leu Tyr Arg Tyr Thr Ser Glu Asp Ala 500 505 422 Ile Leu Lys His Arg Met Asp His Ser Asp Ser Pro Trp Leu Ala Asp 515 520 525 426 Thr Trp Arg Ser Thr Ser Gly Ser Arg Asp Leu Ser Ser Ser Ser Ser 535 430 Leu Ser Ser Arg Leu Gly Leu Asp Pro Arg Asp Pro Leu Glu Gly Arg 550 555 434 Arg Ser Leu Ile Ser Trp Asp Pro Arg Ser Pro Gly Val Pro Leu Leu 570 438 Pro Asp Thr Ser Thr Phe Tyr Gly Ser Leu Ile Ala Glu Gln Pro Ser 580 585 442 Ser Pro Pro Val Arg Pro Ser Pro Lys Thr Pro Ala Ala Arg Arg Phe 600 446 Pro Ser Lys Leu Ala Gly Thr Ser Ser Pro Trp Ala Ser Ser Asp Ser 615 450 Leu Cys Ser Arg Arg Gly Leu Cys Ser Pro Arg Met Ser Leu Thr Pro 630 635 454 Thr Glu Ala Trp Lys Ala Lys Lys Gln Glu Leu His Gln Ala Asn 645 650 458 Ser Ser Pro Leu Leu Arg Gly Ser His Pro Met Glu Ile Trp Ala Trp 660 665 462 Glu Leu Gly Ser Arg Ala Ser Lys Asn Leu Ser Gln Ser Pro Gly Pro 680 466 Asn Ser Gly Ser Pro Gly Glu Ala Pro Arg Ala Val Val Ser Trp Arg

VERIFICATION SUMMARY

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